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ABSTRACT

The distribution of academic programs in Connecticut as of July 1984 and recent trends in program approval are reviewed. Attention is focused on planned curricula that award certificates or degrees and that comprise five groupings: behavioral and social sciences, general and interdisciplinary studies, humanities, occupational/professional studies, and sciences. Information is provided on: the number of specific accredited programs within each grouping and the degree levels offered; the number of accredited programs at each institution by level of award; the distribution of accredited programs by public/private sector, program grouping, and degree level; new accredited programs by degree level and year; and programs licensed but not yet accredited in Connecticut as of July 31, 1984. More than half of the 1,700 accredited programs were classified as occupational/professional, and two-thirds of new programs were in this grouping; the public sector offered the majority of occupational/professional programs; humanities programs were the second most numerous among program offerings in the state, and over three-quarters of these programs were offered by private colleges; and the private sector is developing more new programs than the public sector, accounting for almost two-thirds of all programs accredited since 1979. (SW)

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Report

Research Report R-2-85
June 1985

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Board of Governors for Higher Education
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ACADEMIC PROGRAM TRENDS IN CONNECTICUT HIGHER EDUCATION 1979 - 1984

HIGHLIGHTS

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Connecticut institutions of higher education offer a wide array of programs covering all significant disciplines. The following points highlight the growing emphasis on Occupational/Professional programs and the important contribution of both the independent and the public sectors in providing diversity in Connecticut higher education.

- As of July 31, 1984, more than 1,700 accredited programs were available in Connecticut institutions of higher education. Of these, 125 have received initial accreditation since 1979. An additional 30 programs were licensed and eligible for consideration for accreditation.

- More than half of all accredited programs were of an Occupational/Professional nature. An examination of program accredited since 1979 revealed that two-thirds of new programs fell into the Occupational/Professional program grouping. This trend was even more evident among licensed programs that were eligible for consideration for accreditation, with almost three-quarters of the programs in the Occupational/Professional category.

- Humanities programs were the second most numerous among program offerings in Connecticut. One in five accredited programs was in this category. Over three quarters were offered by independent institutions. The independent sector also offers the majority of programs in three of the additional four program groupings (Behavioral and Social Sciences, Sciences, and General and Interdisciplinary Studies). The public sector offers the majority of Occupational/Professional programs.

- While the independent sector enrolls less than two in five students, these institutions offer almost three out of five accredited programs. This sector also is developing more new programs than the public sector, accounting for almost two thirds of all programs accredited since 1979. More than half of the state's new programs were developed by the four-year regional independent institutions (70 of 125 programs), as were half of all licensed programs (15 of 30 programs).

- Connecticut State University has been the second most active unit in terms of new program development since 1979, accounting for one in five of newly accredited programs (23 of 125 programs). Connecticut State University is also the second most active in terms of licensed programs (6 of 30 programs), followed by the state technical colleges (4 of 30 licensed programs).

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- The largest number of accredited programs is at the baccalaureate level. This also is true for programs newly accredited and licensed.

- Program productivity (the ratio of programs to degrees awarded) is quite similar in the public and independent sectors, with the exception of baccalaureate programs, where the preponderance of Humanities programs in the independent sector results in fewer graduates per program, on the average, than in the public sector. In addition, many sixth-year certificate programs in the independent sector appear to be inactive.

- Trends in program accreditation are only moderately related to those in the number of degrees conferred in a discipline. The addition of new programs does not always result in a greater number of graduates in that discipline statewide.

I. INTRODUCTION

The Board of Governors for Higher Education is charged with licensing and accrediting academic programs in Connecticut institutions of higher education. This report reviews the distribution of academic programs in Connecticut as of July 1984 and examines recent trends in program approval.

For purposes of this report, an academic program is a planned curriculum which culminates in the award of a certificate or degree. The Board has a two-stage process by which new academic programs are approved for operation. A new program is first licensed, or given approval to operate. After successfully meeting all of the criteria in a structured review process, students are permitted to enroll in a licensed program although degrees may not be conferred. Accreditation, the second step, allows continued operation of the program and the conferral of degrees upon completion of the prescribed course of study.

Accredited programs which are listed in the Department of Higher Education (DHE) Academic Program Inventory are classified according to the national Classification of Instructional Programs (CIP).[1] This system comprises 50 program categories, each identified by a two-digit code. More specific programmatic distinctions (to six digits) are available within each category. For this report, these 50 program categories have been aggregated into five groupings: Behavioral and Social Sciences, General and Interdisciplinary Studies, Humanities, Occupational/ Professional, and Sciences. These groupings help in identifying major trends in the types of programs that are available in Connecticut.

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[1] This system replaced the Higher Education General Information Survey (HEGIS) coding structure in 1981.

II. WHAT PROGRAMS ARE AVAILABLE

As of July 31, 1984, there were 1,737 accredited programs offered by Connecticut institutions of higher education (Table 1). Bachelor's programs constitute 42 percent (729) of all accredited programs and another quarter (425, 24%) are master's programs. In addition, associates programs represented 18 percent (317), doctoral 8 percent (132), certificates below the associates 4 percent (70), sixth-year certificates 3 percent (56) and first-professional 0.5 percent (eight).

In terms of program grouping, over half (52%) of the programs are Occupational/Professional in nature, 20 percent in the Humanities, 13 percent in the Sciences, 10 percent in the Behavioral and Social Sciences and 4 percent in General and Interdisciplinary Studies.

The preponderance of Occupational/Professional programs is most apparent at the certificate below the associates and associates degree levels, where liberal arts programs tend to be less differentiated than those in occupational areas of study. Of the 317 associates degree programs, 109 (34%) are business-related (CIPs 06, 07, 08), 50 (16%) are in health fields (CIPs 17, 18) and an additional 46 (14%) are in engineering-related technologies (CIP 15).

At the bachelor's level, the number of Occupational/Professional programs (246, 34%), only slightly exceeds those in the Humanities (231, 32%). Programs in visual and performing arts (CIP 50) and social sciences (CIP 45) are most numerous (85 and 84 bachelor's programs statewide respectively), followed by business programs (CIPs 06, 07 and 08, 63 programs), foreign languages (CIP 16, 59 programs) and education (CIP 13, 52 programs).

Master's degree and sixth-year certificate programs are likely to fall in the Occupational/Professional grouping (211, 50% and 46, 82%, respectively). Programs in education are the most numerous at this level (91 master's programs and 41 sixth-year certificate programs), followed by social sciences (CIP 45, 37 master's programs), business (CIP 06, 34 master's programs), and engineering and related technologies (CIPs 14 and 15, 31 programs).

Of the 132 programs at the doctoral degree level of study, those in the Sciences are more highly represented than at other levels (40 programs, 30%), although professional programs are still the most numerous (44, 33%).

Programs are available in Connecticut in 40 of the 50 CIP program categories. This is an appropriate range since some of the categories not represented in Connecticut higher education are offered through the state's secondary vocational-technical schools (CIP 12, consumer, personal and miscellaneous services; CIP 21, industrial arts; CIP 46, construction trades). Other unavailable categories represent training in basic skills and personal development rather than typical degree programs (CIPs 32, 33, 34, 35, 37). Finally, academic programs in the military sciences and military technologies (CIPs 28 and 29) are not available in Connecticut.

TABLE I

ACCREDITED PROGRAMS BY DEGREE LEVEL, PROGRAM GROUPING AND CIP CATEGORY OFFERED BY CONNECTICUT INSTITUTIONS OF HIGHER EDUCATION AS OF JULY 31, 1984

PROGRAM GROUPING AND CIP CATEGORY	NUMBER OF ACCREDITED PROGRAMS AS OF 7/31/84*							TOTAL
	C	A	B	M	6	D	P	
Behavioral and Social Sciences	-	1	104	56	3	13	-	177
42 - Psychology	-	-	20	19	3	2	-	44
45 - Social Sciences	-	1	84	37	-	11	-	133
General and Interdisciplinary Studies	1	26	38	7	1	3	-	76
24 - Liberal/General Studies	1	26	8	1	-	-	-	36
30 - Multi/Interdisciplinary Studies	-	-	30	6	1	3	-	40
Humanities	4	8	231	79	3	32	-	357
35 - Area and Ethnic Studies	-	-	28	8	-	1	-	37
16 - Foreign Languages	-	-	59	20	-	12	-	91
23 - Letters	-	-	34	20	1	7	-	62
38 - Philosophy and Religion	-	-	25	11	2	7	-	43
50 - Visual and Performing Arts	4	8	85	20	-	7	-	124
Occupational/Professional	65	274	246	211	46	44	8	894
01 - Agribusiness and Agricultural Production	2	-	1	1	-	1	-	5
02 - Agricultural Sciences	-	-	4	2	-	2	-	8
03 - Renewable Natural Resources	-	-	1	2	-	1	-	4
04 - Architecture and Environmental Design	1	2	7	3	-	-	-	13
06 - Business and Management	3	4	54	34	-	2	-	97
07 - Business and Office	26	89	4	-	-	-	-	119
08 - Marketing and Distribution	3	16	5	-	-	-	-	24
09 - Communications	-	2	14	3	-	-	-	19
10 - Communications Technologies	2	7	-	-	-	-	-	9
13 - Education	-	3	52	91	41	11	-	198
14 - Engineering	-	-	36	30	-	19	-	85
15 - Engineering and Engineering-Related Technologies	2	46	3	1	-	-	-	52
17 - Allied Health	5	44	14	3	-	-	-	66
18 - Health Sciences	-	6	22	12	1	5	3	49
19 - Home Economics	-	2	9	5	1	1	-	18
20 - Vocational Home Economics	6	14	-	1	-	-	-	21
22 - Law	-	6	1	2	-	1	3	13
25 - Library and Archival Sciences	2	2	2	1	1	-	-	8
31 - Parks and Recreation	1	4	3	1	-	-	-	9
36 - Leisure and Recreational Activities	-	1	-	-	-	-	-	1
39 - Theology	-	1	-	10	2	1	2	16
43 - Protective Services	5	16	4	1	-	-	-	26
44 - Public Affairs	-	5	10	8	-	-	-	23
47 - Mechanics and Repairers	2	1	-	-	-	-	-	3
48 - Precision Production	4	1	-	-	-	-	-	5
49 - Transportation and Material Moving	1	2	-	-	-	-	-	3
Sciences	-	3	110	72	3	40	-	233
11 - Computer and Information Sciences	-	-	11	4	-	1	-	16
26 - Life Sciences	-	-	31	28	1	21	-	81
27 - Mathematics	-	-	24	12	-	5	-	41
40 - Physical Sciences	-	-	43	28	2	13	-	86
41 - Science Technologies	-	3	1	-	-	-	-	9
TOTAL, ALL PROGRAMS	70	317	729	425	56	132	8	1737
PERCENT OF TOTAL	4.0%	18.2%	42.0%	24.5%	3.2%	7.6%	0.5%	100.0%

Note: Brackets indicate subject-related program groupings.

*Excludes nine bachelor's degree level programs offered at the U.S. Coast Guard Academy and the Master of Philosophy award given to intermediate doctoral students by Yale University.

KEY

C = Certificates Below the Associates
A = Associates
B = Bachelor's
M = Master's And Other Advanced Awards
6 = Sixth-Year Certificates
D = Doctoral
P = First-Professional

III. WHERE PROGRAMS ARE AVAILABLE

Table 2 shows the number of accredited programs at each institution by level of award as of July 31, 1984.

A total of 748 programs, or 43 percent of all accredited programs, are available in the public sector. The public sector offers the majority of programs at the associates degree level and programs leading to certificates below the associates (67% and 76% of all programs at these levels, respectively). At the doctoral and first-professional levels, the public and independent sectors offer a comparable number of programs. The independent sector offers a majority of baccalaureate programs (69%), master's programs (60%) and sixth year certificate programs (77%).

The public sector offers the majority of programs in only one grouping -- Occupational/Professional (53%) (Table 3). In contrast, the independent sector offers almost three-quarters of Humanities programs (73%), two-thirds of Behavioral and Social Sciences (66%) and General and Interdisciplinary Studies (64%), and three-fifths of Science programs (59%).

THE PUBLIC SECTOR

In the public sector, the 748 accredited programs are distributed somewhat evenly among the associates, bachelor's and master's degree levels (213, 28%; 227, 30%; and 172, 23% of programs respectively). The remaining degree levels have a lower representation and include the doctoral degree level (67, 9%), certificates below the associates (53, 7%), sixth-year certificates (13, 2%) and first-professional awards (3, 0.4%) (Table 2).

The University of Connecticut and Connecticut State University each offer just under one-third of all accredited programs in the public sector (241, 32% and 246, 33% respectively). The regional community colleges offer another one-quarter (209, 28%), while the state technical colleges have 50 programs (7%). Charter Oak College, which administers the state's external degree program, awards degrees in general studies at the associates and bachelor's degree levels.

By Degree Level

Associates programs are offered by all public institutions with the exception of the University of Connecticut and one of the four Connecticut State Universities. As would be expected, however, most of these programs are concentrated at the regional community colleges and state technical colleges. Over three-quarters of all such programs are at the regional community colleges (165 programs). Certificates below the associates degree are available at the University of Connecticut (two programs in agriculture), ten regional community colleges (44 programs) and three state technical colleges (7 programs).

Bachelor's programs are available at the University of Connecticut, the Connecticut State University and through Charter Oak College. A total of 127 (56%) of the 227 public programs are offered at the Connecticut State University while 99 are at the University of Connecticut.

TABLE 2

ACCREDITED PROGRAMS IN CONNECTICUT HIGHER EDUCATION BY DEGREE LEVEL AND INSTITUTION OF AS OF JULY 31,1984

	Degree Level							TOTAL	% OF ALL PROGRAMS
	C	A	B	M	6	D	P		
University of Connecticut	2	-	99	69	1	67	3	241	32.2%
University of Connecticut	2	-	99	69	1	67	1	239	31.9%
UConn Health Center	-	-	-	-	-	-	2	2	0.3%
Connecticut State University	-	4	127	103	12	-	-	246	32.9%
Central	-	-	43	32	1	-	-	76	10.2%
Eastern	-	1	19	11	-	-	-	31	4.1%
Southern	-	1	37	41	9	-	-	88	11.8%
Western	-	2	28	19	2	-	-	51	6.8%
Regional Community Colleges	44	165	-	-	-	-	-	209	27.9%
Asnuntuck	-	10	-	-	-	-	-	10	1.3%
Greater Hartford	4	12	-	-	-	-	-	16	2.1%
Housatonic	7	12	-	-	-	-	-	19	2.5%
Manchester	7	24	-	-	-	-	-	31	4.1%
Mattatuck	5	18	-	-	-	-	-	23	3.1%
Middlesex	-	15	-	-	-	-	-	15	2.0%
Mohegan	7	8	-	-	-	-	-	15	2.0%
Northwestern Connecticut	1	16	-	-	-	-	-	17	2.3%
Norwalk	5	16	-	-	-	-	-	21	2.8%
Quinebaug Valley	2	9	-	-	-	-	-	11	1.5%
South Central	1	14	-	-	-	-	-	15	2.0%
Tunxis	5	11	-	-	-	-	-	16	2.1%
State Technical Colleges	7	43	-	-	-	-	-	50	6.7%
Greater New Haven	2	7	-	-	-	-	-	9	1.2%
Hartford	-	8	-	-	-	-	-	8	1.1%
Norwalk	-	12	-	-	-	-	-	12	1.6%
Thames Valley	3	9	-	-	-	-	-	12	1.6%
Waterbury	2	7	-	-	-	-	-	9	1.2%
Board for State Academic Awards	-	1	1	-	-	-	-	2	0.3%
Charter Oak College	-	1	1	-	-	-	-	2	0.3%
TOTAL, PUBLIC INSTITUTIONS	53	213	227	172	13	67	3	748	-
% of All Public Programs	7.1%	28.5%	30.3%	23.0%	1.7%	9.0%	0.4%	100.0%	100.0%
Four-Year National	-	-	183	104	1	61	3	352	35.7%
Connecticut College	-	-	42	11	-	-	-	53	5.4%
Trinity College	-	-	31	11	-	-	-	42	4.2%
Wesleyan University	-	-	44	17	1	5	-	67	6.8%
Yale University	-	-	66	65	-	56	3	190	19.3%
Four-Year Regional	11	73	319	149	42	4	2	600	60.6%
Albertus Magnus College	-	1	27	-	-	-	-	28	2.8%
Bridgeport Engineering Institute	-	2	2	-	-	-	-	4	0.4%
Fairfield University	-	-	24	11	8	-	-	43	4.3%
Hartford Graduate Center	-	-	-	8	-	-	-	8	0.8%
Hartford Seminary	-	-	-	1	-	1	-	2	0.2%
Holy Apostles College	-	1	4	5	-	-	1	11	1.1%
Paier College of Art, Inc.	3	1	4	-	-	-	-	8	0.8%
Post College	-	11	5	-	-	-	-	16	1.6%
Quinnipiac College	-	15	38	6	-	-	-	59	6.0%
Sacred Heart University	-	7	25	7	-	-	-	39	3.9%
St. Alphonsus College	-	-	1	-	-	-	-	1	0.1%
St. Basil's College	-	-	1	-	-	-	-	1	0.1%
St. Joseph College	-	-	27	19	14	-	-	60	6.1%
University of Bridgeport	8	13	71	42	8	1	1	144	14.6%
University of Hartford	-	4	49	33	12	2	-	100	10.1%
University of New Haven	-	18	41	17	-	-	-	76	7.7%
Two-Year Independent	6	31	-	-	-	-	-	37	3.7%
Briarwood College	6	11	-	-	-	-	-	17	1.7%
Hartford College for Women	-	1	-	-	-	-	-	1	0.1%
Katherine Gibbs School	-	1	-	-	-	-	-	1	0.1%
Mitchell College	-	17	-	-	-	-	-	17	1.7%
Mt. Sacred Heart	-	1	-	-	-	-	-	1	0.1%
TOTAL, INDEPENDENT INSTITUTIONS	17	104	502	253	43	65	5	989	-
% of All Independent Programs	1.7%	10.5%	50.7%	25.7%	4.3%	6.6%	0.5%	100.0%	100.0%
TOTAL, ALL INSTITUTIONS	70	317	729	425	56	132	8	1,737	-
% of All Programs	4.0%	18.2%	41.9%	24.5%	3.2%	7.6%	0.5%	100.0%	100.0%

* Excludes nine bachelor's degree level programs offered by the U.S. Coast Guard Academy and the Master of Philosophy award given to intermediate doctoral students at Yale University.

Key: See Table 1

At the master's level, the University of Connecticut offers 69 (40%) of the 172 public sector programs while the Connecticut State University offers 103. There is only one sixth-year certificate program at the University of Connecticut (an umbrella program in education) while there are 12 at the Connecticut State University.

In the public sector, the University of Connecticut is the only doctoral and first-professional degree-granting institution with 67 programs at the former level and three (law, medicine, dentistry) at the latter.

By Program Grouping

Whereas Table 2 showed accredited programs by institution, Table 3 shows the distribution of accredited programs by program grouping, degree level and sector. Within the public sector, the majority of accredited programs fall within the Occupational/Professional program grouping (471, 63%). Such programs constitute the plurality at all degree levels. These programs represent all but one of the certificate programs, 90 percent of associate level programs, 42 percent of bachelor's programs, 52 percent of master's programs, 92 percent of sixth-year certificate programs, 42 percent of doctoral programs and all the first-professional programs (by definition).

Humanities comprise the second largest program grouping in the public sector (95, 13%), and this grouping ranks second also at the bachelor's level, with 26 percent of programs at that level. The Science grouping of programs ranks a close third overall (94, 13%), but ranks second at the master's and doctoral levels with 20 percent and 33 percent of programs respectively.

The Behavioral and Social Sciences grouping constitutes 8 percent (61) of accredited programs in the public sector with General and Interdisciplinary Studies constituting the remaining 4 percent (27).

THE INDEPENDENT SECTOR

A total of 989 programs, or 57 percent of all accredited programs, are available in the independent sector (Table 2) although these colleges and universities enroll only 38 percent of all students attending in Connecticut. The independent sector offers about two-thirds of all the state's accredited programs at the bachelor's, master's and sixth-year certificate levels (502, 69%; 253, 60% and 43, 77%, respectively). Over half (502, 51%) of the programs in the independent sector are offered at the bachelor's level, as compared with 30 percent in the public sector. Another quarter (253, 26%) of all independent sector programs are at the master's level.

Over 60 percent (600, 61%) of accredited programs in the independent sector are offered by the four-year regional institutions, another one-third (352, 36%) by the four-year national institutions and 4 percent (37) by the two-year institutions.

TABLE 3

ACCREDITED PROGRAMS IN CONNECTICUT HIGHER EDUCATION BY PROGRAM GROUPING, DEGREE LEVEL AND SECTOR AS OF JULY 31, 1984

	Behavioral and Social Sciences		General and Interdisciplinary Studies		Humanities		Occupational/ Professional		Sciences		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Certificates Below Associates												
Public	-	-	1	1.9%	-	-	53	98.1%	-	-	53	100%
Independent	-	-	-	-	4	23.5%	13	76.5%	-	-	17	100%
Total	-	-	1	1.4%	4	5.7%	65	92.9%	-	-	70	100%
Associates												
Public	-	-	17	8.0%	3	1.4%	191	89.7%	2	0.9%	213	100%
Independent	1	1.0%	9	8.6%	5	4.8%	83	79.8%	6	5.8%	104	100%
Total	1	0.3%	26	8.2%	8	2.5%	274	86.4%	8	2.5%	317	100%
Bachelor's												
Public	32	14.1%	7	3.1%	58	25.6%	95	41.8%	35	15.4%	227	100%
Independent	72	14.3%	31	6.2%	173	34.5%	151	30.1%	75	14.9%	502	100%
Total	104	14.3%	38	5.2%	231	31.7%	246	33.7%	110	15.1%	729	100%
Master's *												
Public	22	12.8%	1	0.6%	24	14.0%	90	52.3%	35	20.3%	172	100%
Independent	34	13.4%	6	2.4%	55	21.7%	121	47.8%	37	14.6%	253	100%
Total	56	13.2%	7	1.6%	79	18.6%	211	49.6%	72	16.9%	425	100%
Sixth-Year Certificates												
Public	1	7.7%	-	-	-	-	12	92.3%	-	-	13	100%
Independent	2	4.7%	1	2.3%	3	7.0%	34	79.1%	3	7.0%	43	100%
Total	3	5.4%	1	1.8%	3	5.4%	46	82.1%	3	5.4%	56	100%
Doctoral												
University of Connecticut	6	9.0%	1	1.5%	10	14.9%	28	41.8%	22	32.8%	67	100%
Yale University	7	12.5%	2	3.6%	20	35.7%	13	23.2%	14	25.0%	56	100%
Other Independent	-	-	-	-	2	22.2%	3	33.3%	4	44.4%	9	100%
Total	13	9.8%	3	2.3%	32	24.2%	44	33.3%	40	30.3%	132	100%
First-Professional												
University of Connecticut	-	-	-	-	-	-	3	100%	-	-	3	100%
Yale University	-	-	-	-	-	-	3	100%	-	-	3	100%
Other Independent	-	-	-	-	-	-	2	100%	-	-	2	100%
Total	-	-	-	-	-	-	8	100%	-	-	8	100%
Total, All Programs												
Public	61	8.1%	27	3.6%	95	12.7%	471	63.0%	94	12.6%	748	100%
Independent	116	11.7%	49	5.0%	262	26.5%	423	42.8%	139	14.0%	989	100%
Total	177	10.2%	76	4.4%	357	20.5%	894	51.5%	233	13.4%	1737	100%
% Public		34.5%		35.5%		26.6%		52.7%		40.3%		43.1%

*Includes Master's and other advanced programs but excludes Sixth-Year Certificate programs which are shown separately.

By Degree Level

Associates level programs are offered by 15 of the 25 institutions in the independent sector while three offer certificates below the associates. Almost three-quarters (70%, 73 programs) of all such programs are at the four-year regional institutions. The four-year national independent institutions offer no programs below the baccalaureate.

The 502 bachelor's degree programs are offered by 18 independent institutions. Approximately one-third (36%, 183) are available in the four-year national institutions while the remaining two-thirds (64%, 319) are in the four-year regional institutions.

A total of 149 master's degree programs are available at four-year regional independent institutions and an additional 104 are offered by the four-year national institutions. There are 42 sixth-year certificate programs at the four-year regional institutions but only one at a single four-year national institution.

Of the 65 doctoral level programs offered by independent institutions, 56 are at Yale University. Three of the five first-professional programs also are at this institution.

By Program Grouping

While Table 2 showed accredited programs by institution, Table 3 shows the distribution of accredited programs by program grouping, degree level and sector. As is the case in the public sector, the largest program grouping in the independent sector is that of Occupational/Professional with 423 programs representing 43 percent of all accredited independent sector programs. In contrast to the public sector, however, these programs do not represent the plurality at every program level. In the independent sector, Humanities programs outnumber Occupational/Professional programs at both the bachelor's and doctoral level of study.

The second largest program grouping overall is that of Humanities (262, 26%). As noted above, these offerings represent the plurality of bachelor's and doctoral degree level programs (173, 34% and 22, 34%, respectively). The Sciences program grouping is the third largest with 139 programs or 14 percent of all accredited programs. Science programs rank second at the doctoral level, behind Humanities. The remaining program categories include Behavioral and Social Sciences (116, 12%) and General and Interdisciplinary Studies (49, 5%).

IV. PROGRAM TRENDS

TRENDS IN PROGRAM ACCREDITATION

From July 1979 through July 1964, 125 new programs in 29 CIP program categories across all five program groupings received initial accreditation (Table 4; Table 5 provides additional detail by degree level).[2] Almost two-thirds of the new programs accredited over the past five years were in the Occupational/Professional program grouping (82 programs, 66%). The next largest grouping was Humanities with 24 programs (19%). The remaining groupings each had between two and 10 newly accredited programs during this period.

TABLE 4

SUMMARY OF CONNECTICUT PROGRAMS ACCREDITED JULY 1979 - JULY 1984
BY PROGRAM GROUPING AND YEAR

Program Grouping	79/80	80/81	81/82	82/83	83/84	TOTAL	% OF TOTAL
Behavioral and Social Sciences	3	2	-	-	2	7	5.6%
General and Interdisciplinary Studies	-	-	1	-	1	2	1.6%
Humanities	3	7	8	5	1	24	19.2%
Occupational/Professional	16	23	10	15	18	82	65.6%
Sciences	3	3	2	1	1	10	8.0%
TOTAL	25	35	21	21	23	125	100.0%

Table 6 summarizes new program accreditation by degree level and year. No new first-professional programs and only one new doctoral program has been accredited since July 1979, an Ed.D. degree in educational administration at the University of Bridgeport. In contrast, 47 bachelor's degree programs and 44 master's degree programs were accredited. These new programs represented 38 and 35 percent, respectively, of all new programs. The remaining 24 percent were certificates below associates and associates programs. Total annual accreditation activity has remained quite steady, although some variation is apparent by degree level. Accreditation of associates and bachelor's degree programs has slowed while the number of master's programs accredited in 1983-84 was the highest in five years (15 programs).

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[2] Of the 125 newly accredited programs, three since have been phased out due to a failure to meet program objectives. These criteria include a specified level of enrollment as well as the availability of appropriate support.

TABLE 5

CONNECTICUT PROGRAMS ACCREDITED JULY 1979 - JULY 1984 BY PROGRAM GROUPING, CIP CATEGORY, YEAR AND DEGREE LEVEL

Program Grouping and CIP Category	July 1979-June 1980					July 1980-June 1981						July 1981-June 1982						July 1982-June 1983					July 1983-July 1984				TOTAL	% OF TOTAL
	#	A	B	M	D	#	C	A	B	M	S	#	A	B	M	S	#	C	A	B	M	#	A	B	M		
Behavioral and Social Sciences																												
42 - Psychology	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	2	1.6%
45 - Social Sciences	2	1	1	-	-	2	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	5	4.0%
Total	3	1	1	1	-	2	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	7	5.6%
General and Interdisciplinary Studies																												
24 - Liberal/General Studies	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	0.8%
30 - Multi/Interdisciplinary Studies	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	1	0.8%
Total	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	1	-	1	-	2	1.6%
Humanities																												
05 - Area and Ethnic Studies	1	-	-	1	-	1	-	-	1	-	-	3	-	2	1	-	-	-	-	-	-	-	-	-	-	5	4.0%
38 - Philosophy and Religion	-	-	-	-	-	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	3	2.4%
50 - Visual and Performing Arts	2	-	2	-	-	4	-	-	3	1	-	5	1	4	-	-	5	2	1	2	-	-	-	-	-	16	12.8%
Total	3	-	2	1	-	7	-	-	4	3	-	8	1	6	1	-	5	2	1	2	-	1	-	-	1	24	19.2%
Occupational/Professional																												
04 - Architecture and Environmental Design	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	-	1	1	-	-	-	2	-	1	1	5	4.0%
06 - Business and Management	5	-	1	4	-	5	-	-	1	4	-	-	-	-	-	-	5	2	2	-	1	-	-	-	-	15	12.0%
07 - Business and Office	1	1	-	-	-	1	1	-	-	-	-	-	-	-	-	-	2	-	1	1	-	-	-	-	-	4	3.2%
09 - Communications	2	-	1	1	-	2	-	-	2	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	5	4.0%
10 - Communications Technologies	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	1	0.8%
13 - Education	5	3	-	1	1	4	-	-	1	2	1	2	-	1	-	1	-	-	-	-	-	-	-	-	-	11	8.8%
15 - Engineering and Engineering-Related Tech.	2	2	-	-	-	1	-	-	1	-	-	1	1	-	-	-	-	1	1	-	-	1	-	-	1	7	5.6%
17 - Allied Health	-	-	-	-	-	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	4	-	6	4.8%
18 - Health Sciences	-	-	-	-	-	2	-	-	1	1	-	2	-	1	1	-	2	-	-	2	-	1	-	-	1	7	5.6%
19 - Home Economics	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	1	-	-	-	1	1	-	1	-	3	2.4%
20 - Vocational Home Economics	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	2	1.6%
22 - Law	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	1	-	1	-	-	1	-	-	1	3	2.4%
25 - Library and Archival Sciences	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.8%
31 - Parks and Recreation	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.8%
39 - Theology	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	4	-	-	4	5	4.0%
44 - Public Affairs	1	1	-	-	-	1	-	-	1	-	-	-	-	-	-	-	1	-	-	-	1	2	-	-	2	5	4.0%
47 - Mechanics and Repairers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	0.8%
Total	16	7	2	6	1	23	1	3	5	8	2	10	2	5	2	1	15	4	5	3	3	18	1	6	11	82	65.6%
Sciences																												
11 - Computer and Information Sciences	1	-	1	-	-	2	-	-	1	1	-	2	-	3	-	-	-	-	-	-	-	-	-	-	-	5	4.0%
26 - Life Science	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.8%
27 - Mathematics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	0.8%
40 - Physical Sciences	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	1	0.8%
41 - Science Technologies	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1.6%
Total	3	2	1	-	-	3	-	-	2	1	-	2	-	3	-	-	1	-	-	-	1	1	-	-	1	10	8.0%
TOTAL	25	10	6	8	1	35	1	3	16	13	2	21	3	13	4	1	21	6	6	5	4	23	1	7	15	125	100.0%

KEY: See Table 1.

NOTE: Of the 16 newly accredited programs in Visual and Performing Arts (50), five (three bachelors and two certificate programs) were at Paier College of Art, Inc., which received institutional accreditation for the first time in 1977. Brackets indicate subject-related program groupings.

TABLE 6

NEW PROGRAMS ACCREDITED IN CONNECTICUT JULY 1979 - JULY 1984
BY DEGREE LEVEL AND YEAR

Degree Level	79/80	80/81	81/82	82/83	83/84	TOTAL	% OF TOTAL
Certificates Below Associates	0	1	0	6	0	7	5.6%
Associates	10	3	3	6	1	23	18.4%
Bachelor's	6	16	13	5	7	47	37.6%
Master's	8	13	4	4	15	44	35.2%
Sixth-Year Certificate	0	2	1	0	0	3	2.4%
Doctoral	1	0	0	0	0	1	0.8%
First-Professional	0	0	0	0	0	0	-
TOTAL	25	35	21	21	23	125	100.0%

Table 7 shows new programs by program grouping and degree level. At each level of study the majority of new programs are in the Occupational/Professional grouping, with the lowest representation at the bachelor's level (53% of new programs).

TABLE 7

CONNECTICUT PROGRAMS ACCREDITED JULY 1979-JULY 1984
BY PROGRAM GROUPING AND DEGREE LEVEL

Program Grouping	C	A	B	M	6	D	TOTAL
Behavioral and Social Sciences		1	2	4			7
General and Interdisciplinary Studies			1	1			2
Humanities	2	2	14	6			24
Occupational/Professional	5	18	25	30	3	1	82
Sciences		2	5	3			10
Total	7	23	47	44	3	1	125

In the Occupational/Professional grouping, the following are the major CIP categories in which new programs were accredited.

	C	A	B	M	6	D	TOTAL
Business (06, 07)	3	4	3	9	0	0	19
Health (17, 18)	0	2	8	3	0	0	13
Education (13)	0	3	2	3	2	1	11
Engineering Technologies (15)	1	4	1	1	0	0	7
Communications (09, 10)	0	1	4	1	0	0	6

With the exception of communications, these CIP categories also are among the most highly represented individual CIP categories among all accredited programs (see Table 1).

In the Humanities grouping, the largest individual CIP category is that of visual and performing arts with 16 out of 24 programs. Eleven of these programs were at the bachelor's level. Five of the programs in this CIP category were at Paier College of Art, which received institutional accreditation for the first time in 1977. Four additional programs in this CIP category were accredited at Albertus Magnus College, which offers a cooperative program with Paier.

Table 8 presents newly accredited programs by degree level and type of institution. Almost two-thirds (65%, 81) of the 125 new programs accredited between 1979 and 1984 were at independent institutions, compared to 35 percent (44) at public institutions. This represents an 9 percent growth rate for the independent sector and a 6 percent growth rate in the public sector. The four-year regional independent institutions, with 70 programs, alone account for more than half (56%) of newly accredited programs in the state. Connecticut State University, with 23 programs, accounts for an additional 18 percent of newly accredited programs.

TABLE 8

PROGRAMS ACCREDITED IN CONNECTICUT JULY 1979 - JULY 1984
BY DEGREE LEVEL AND TYPE OF INSTITUTION

Degree Level	University of Connecticut	Connecticut State University	Regional Community Colleges	State Technical Colleges	TOTAL, PUBLIC	% OF TOTAL, PUBLIC
Certificate Below Associates	0	-	2	1	3	6.8%
Associate	-	0	5	4	9	20.5%
Bachelors	6	11	-	-	17	38.6%
Masters	3	9	-	-	12	27.3%
Sixth-Year Certificate	0	3	-	-	3	6.8%
Doctoral	0	-	-	-	0	-
First-Professional	0	-	-	-	0	-
TOTAL	9	23	7	5	44	100.0%
% OF TOTAL, PUBLIC	20.5%	52.3%	15.9%	11.4%	100.0%	
Degree Level	Four-Year National	Four-Year Regional	Two-Year Independent	TOTAL, INDEPENDENT	% OF TOTAL, INDEPENDENT	GRAND TOTAL
Certificate Below Associates	-	4	0	4	4.9%	7
Associate	-	5	9	14	17.3%	23
Bachelors	0	30	0	30	37.0%	47
Masters	2	30	-	32	39.5%	44
Sixth-Year Certificate	-	-	-	-	-	3
Doctoral	0	1	-	1	1.2%	1
First-Professional	0	0	-	0	-	0
TOTAL	2	70	9	81	100.0%	125
% OF TOTAL, INDEPENDENT	2.5%	86.4%	11.1%	100.0%		

NOTE: A "-" indicates that programs at a particular degree level are unavailable at the specified constituent unit. A "0" indicates that programs are available, but that no new programs were accredited.

Of all newly accredited programs in the public sector, 39 percent (17) were at the bachelor's level and 27 percent (12) at the master's level. There were no newly accredited doctoral level or first-professional programs. Over half of the newly accredited programs in the public sector were at the Connecticut State University (52%, 23) where they were equally divided between bachelor's and master's/sixth-year certificate degree programs. The University of Connecticut had nine new accredited programs, six at the bachelor's level and three at the master's level. There were seven new programs at the regional community colleges and five at the state technical colleges.

In the independent sector, new master's level programs (32) slightly outnumbered new bachelor's level programs (30). These programs represented 40 and 37 percent, respectively, of all newly accredited programs in the independent sector. The vast majority (86%) of new programs were accredited at four-year regional institutions. Nine programs were accredited at the two-year institutions (all associates) while only two new programs were accredited at the four-year national institutions (both master's).

Thus the major contributor to new program activity has been the four-year regional institutions, followed by Connecticut State University. In each case the focus of development has been both at the bachelor's and post-baccalaureate levels of study. At the bachelor's level, new programs have been accredited in a variety of disciplines at each of the two types of institutions, about half of which fall into the Occupational/Professional grouping in each case (15 and 6 respectively). At the post-baccalaureate level of study, more than half (58%) of the new programs at the four-year independent institutions were in the Occupational/Professional category, compared to all but two of the programs at Connecticut State University (83%).

PROGRAMS LICENSED BUT NOT YET ACCREDITED

As of July 31, 1984, there were 35 programs that were licensed but not accredited. Five of these programs are offered by out-of-state institutions operating in Connecticut with degrees conferred at their home state location. The remaining 30 programs provide an insight into future accreditation activity in Connecticut.

Table 9 presents programs licensed but not yet accredited by program grouping and CIP category. Of the 30 programs licensed and proceeding to accreditation as of July 31, 1984, 22 (73%) fall into the Occupational/Professional grouping, a larger percentage than for newly accredited programs (66%), and for all programs (52%). Within the grouping, business again is the largest single CIP category with seven programs. Three of these programs were newly licensed at Southern Connecticut State University.

TABLE 9

PROGRAMS LICENSED BUT NOT YET ACCREDITED IN CONNECTICUT AS OF JULY 31, 1984 BY PROGRAM GROUPING, CIP CATEGORY AND DEGREE LEVEL

PROGRAM GROUPING AND CIP CATEGORY	C	A	B	M	D	TOTAL
Behavioral and Social Sciences						
Psychology	-	-	1	-	1	2
Social Sciences	-	-	2	-	-	2
Total	-	-	3	-	1	4
General and Interdisciplinary Studies						
Liberal/General Studies	-	1	1	-	-	2
Humanities						
Letters	-	-	1	-	-	1
Occupational/Professional						
Business (06, 07)	-	1	2	4	-	7
Computer and Information Sciences	-	-	4	-	-	4
Engineering and Related Technologies (14, 15)	-	2	1	-	-	3
Health Sciences	-	-	1	1	-	2
Vocational Home Economics	-	2	-	-	-	2
Law	-	-	-	2	-	2
Precision Production	1	1	-	-	-	2
Total	1	6	8	7	-	22
Sciences						
Science Technologies	-	1	-	-	-	1
TOTAL	1	8	13	7	1	30

NOTE: Excludes five programs offered by out-of-state institutions.

KEY: See Table 1.

A total of 13 programs, or 43 percent of all currently licensed programs eligible for accreditation, are at the bachelor's level, consistent with the representation of bachelor's programs among accredited offerings.

Table 10 shows licensed programs by type of institution. A total of 60 percent of all licensed programs were in the independent sector compared to 65 percent of newly accredited programs and 57 percent of all programs. The four-year regional institutions alone account for half (50%) of all licensed programs, but this is down from their representation among newly accredited programs (56%).

TABLE 10

LICENSED PROGRAMS IN CONNECTICUT
BY TYPE OF INSTITUTION AS OF JULY 31, 1984

Type of Institution	Licensed Programs	
	Number	Percent
University of Connecticut	1	3.3%
Connecticut State University	6	20.0%
Regional Community Colleges	1	3.3%
State Technical Colleges	4	13.3%
Charter Oak College	0	-
TOTAL, PUBLIC INSTITUTIONS	12	40.0%
Four-Year National	0	-
Four-Year Regional	15	50.0%
Two-Year Independent	3	10.0%
TOTAL, INDEPENDENT INSTITUTIONS	18	60.0%
TOTAL, ALL INSTITUTIONS	30	100.0%

PROGRAM PRODUCTIVITY

The previous sections have described the availability of programs in Connecticut and trends in accreditation of new programs. These data, however, do not translate directly into degree activity because programs in some CIP categories and levels of study tend to have large enrollments while others are almost individualized in scope. A rough indicator of productivity can be obtained by looking at the average number of graduates per program (Table 11).

TABLE 11

AVERAGE NUMBER* OF DEGREES CONFERRED IN CONNECTICUT
BY DEGREE LEVEL AND PROGRAM GROUPING, 1983-84

Program Grouping	Associates		Bachelor's		Master's		Sixth-Year Certificate		Doctoral		First-Professional	
	Average # of Degrees	Total # of Programs	Average # of Degrees	Total # of Programs	Average # of Degrees	Total # of Programs	Average # of Degrees	Total # of Programs	Average # of Degrees	Total # of Programs	Average # of Degrees	Total # of Programs
Behavioral & Social Sciences	3	1	24	104	6	56	2	3	7	13	-	-
General and Inter-disciplinary Studies	77	26	13	38	2	7	0	1	1	3	-	-
Humanities	4	8	9	231	5	79	0	3	3	32	-	-
Occupational/ Professional Sciences	14	274	28	296	20	211	7	45	3	44	109	8
	3	8	12	110	5	72	0	3	3	40	-	-
TOTAL, ALL PROGRAMS	19	317	18	729	12	425	6	56	4	132	109	8

NOTE: Certificates Below Associates are excluded here due to reporting inconsistencies.

*Number of degrees conferred divided by number of accredited programs in category.

First-professional programs produce the largest numbers of graduates (an average of 109 per program in 1983-84), while, not surprisingly, doctoral programs graduate the fewest (an average of four per program in 1983-84).

At the associates level, General and Interdisciplinary Studies programs produce the most graduates (average of 77 graduates per program), followed by programs in Occupational/Professional areas of study (average of 14 graduates). At the bachelor's level, Occupational/Professional programs and those in the Behavioral and Social Sciences are most productive (28 and 24 graduates on the average, respectively). Humanities programs produce the smallest number of graduates at this level of study (average of nine graduates).

At the master's level, Occupational/Professional programs produce a large number of graduates (20 per program on the average). At the doctoral level, numbers are small across all the discipline groupings.

Table 12 shows the average number of degrees conferred by sector. Overall, programs in the public sector graduate an average of 19 students while programs in the independent sector average 13 graduates each. Program productivity is quite similar at the certificate below the associates, associates, master's, doctoral and first-professional levels. In contrast, public institutions graduate an average of 29 students per program at the bachelor's level, compared to 13 in the independent sector.

TABLE 12

AVERAGE NUMBER OF DEGREES CONFERRED PER PROGRAM IN CONNECTICUT BY DEGREE LEVEL AND SECTOR, 1983-84

Degree Level	Public Institutions	Independent Institutions
Certificates Below Associates	5	1
Associates	22	24
Bachelor's	29	13
Master's and Other Advanced Awards	12	13
Sixth-Year Certificate	18	2
Doctoral	3	5
First Professional	105	112
AVERAGE, ALL INSTITUTIONS	19	13

It was noted earlier that the majority (73%) of Humanities programs are available in Connecticut's independent institutions, while Occupatonal/Professional programs are distributed more evenly between the two sectors. Since Humanities programs have a relatively low level of degree productivity, this results in a lower ratio of programs to degrees conferred in the independent sector at the bachelor's level.

At the sixth-year certificate level, the public sector programs, which are largely in the field of education, are quite active while many programs in the independent sector are not producing graduates.

CHANGES IN DEGREES CONFERRED

Trends in program accreditation are only moderately related to changes in degrees conferred, as is seen in Table 13. Included in this table are program categories in which either five or more new programs were accredited between July 1979 and July 1984, or in which the number of degrees conferred increased by at least 100 from 1981-82 to 1983-84.

The large number of new programs in business (19) also is reflected in a substantial increase in degrees conferred (620). In contrast, new programs in visual and performing arts (16) have had little impact on the number of graduates in the field (40). The fields of education and health, each of which experienced a significant increase in new programs during the period, actually experienced declines in graduates statewide.

The number of graduates in the program categories of engineering and law have increased significantly even though no new programs were accredited in engineering and only three new programs in law. Graduates of engineering technologies, as well as computer and information sciences also have increased significantly despite a relatively small number of new programs (seven and five programs, respectively). As of July 1984, there were four additional programs in computer and information sciences at the licensure stage.

TABLE 13

COMPARISON OF PROGRAM TRENDS WITH TRENDS IN DEGREES CONFERRED IN CONNECTICUT INSTITUTIONS OF HIGHER EDUCATION

Program Categories with at Least Five New Programs, 1981-82 to 1983-84			Change in Degrees Conferred 1981-82 to 1983-84	
CIP	Program Category Name	Number of New Programs	Change in Degrees	Percent Change
06,07	Business	19	620	10.4%
50	Visual and Performing Arts	16	40	9.2%
17,18	Health	13	-60	-2.8%
13	Education	11	-575	-18.2%
15	Engineering Technologies	7	171	20.7%
04	Architecture and Environmental Design	5	19	19.2%
05	Area and Ethnic Studies	5	-4	-1.7%
17	Computer & Info. Sciences	5	119	53.4%
39	Theology	5	6	-3.1%
45	Social Sciences	5	-221	-9.5%
Program Categories With 100+ Change in Degrees Conferred, 1981-82 to 1983-84			Change in Degrees Conferred 1981-82 to 1983-84	
CIP	Program Category Name	Number of New Programs	Change in Degrees	Percent Change
14	Engineering	0	205	17.4%
22	Law - First-Professional	0	72	15.8%
	- Other Levels	3	53	51.0%

This report was prepared by the Office of Research, Department of Higher Education, (203)566-4645.